

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO). I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,293	09/975,293 10/11/2001		Max M. Yeung	01-3221496.00144	1284
24319	7590	04/27/2006	EXAMINER		INER
		DRATION	TORRES, JOSEPH D		
	1621 BARBER LANE MS: D-106				PAPER NUMBER
MILPITAS	S, CA 950	035	•	2133	
				DATE MAILED: 04/27/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	T 4 10 41 No.					
	Application No.	Applicant(s)				
	09/975,293	YEUNG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Joseph D. Torres	2133				
The MAILING DATE of this communication	appears on the cover sheet wit	h the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING. - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a re n. eriod will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
	20 Fahruary 2000					
1) Responsive to communication(s) filed on (
·—	This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice unit	ier Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-4 and 6-23 is/are pending in the	e application.	•				
4a) Of the above claim(s) is/are with	• •					
5)⊠ Claim(s) <u>1-4 and 6-21</u> is/are allowed.						
6)⊠ Claim(s) 22,23 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	nd/or election requirement.					
Application Papers		•				
	•	·				
9) The specification is objected to by the Exam						
10) The drawing(s) filed on 15 April 2004 is/are		·				
Applicant may not request that any objection to	= · ·	• •				
Replacement drawing sheet(s) including the co	· · · · · · · · · · · · · · · · · · ·	* *				
11) The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority docum	nents have been received.					
2. Certified copies of the priority docum		plication No.				
3. Copies of the certified copies of the		·				
application from the International Bu						
* See the attached detailed Office action for a		eceived.				
	·					
• • • • • • • • • • • • • • • • • • • •						
Attachment(s)						
1) X Notice of References Cited (PTO-892)	A) 🗖 Intentions C.	mman/ (PTO 412)				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) LJ Interview Su Paper No(s)	Mail Date				
Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	· — —	ormal Patent Application (PTO-152)				

Application/Control Number: 09/975,293

Art Unit: 2133

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 02/02/2006 have been fully considered but they are not persuasive.

The Applicant contends, "Since "one of ordinary skill in the art at the time the invention was made would have known that syndromes are equal to the difference between received parity and newly generated parity at the receiver" (see Examiner's admission in last five lines on page 2 of the final Office Action dated November 30, 2005) and (i) the circuit shown in FIG. 7 of Stiffler receives only data bits (i.e., the signals bl...b16) and (ii) the signals [cl...c4] are computed parity relationships rather than a syndrome signal, it follows that one of ordinary skill in the art at the time the invention was made would not view FIG. 7 of Stiffler as teaching or suggesting a syndrome encoder circuit configured to (i) receive a read data signal AND a read parity-signal and (ii) generate a syndrome signal in response to the read data signal AND the read parity signal".

The Examiner disagrees and asserts that col. 8, lines 38-46 in Cassidy teaches that each of the parity nibbles such as c1-c4 are used to generate syndromes and that is why Cassidy labels circuit 430 in Figure 4 as the 1st Stage Syndrome Generator in recognition that circuit 430 generates syndrome signals necessary for the calculation of syndromes. The Examiner includes a teaching reference (Stephen B. Wicker, Error Control for Digital Communication and Storage,

Application/Control Number: 09/975,293

Art Unit: 2133

Prentice-Hall 1995, pages 99-121) and refers the Applicant to page 117 for a teaching on the relationship between parity and syndromes. In particular, Wicker teaches that parity are syndrome signals (a signal that has the express purpose of generating syndromes) used for generating a syndrome.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hidaka; Hideto et al. (US 4730320 A, hereafter referred to as Hidaka) in view of Chen; Chin L. (US 4464753 A) in further view of Stiffler; Jack J. (US 4736376 A). See the Non-Final Action filed 04/29/2005 for detailed action of prior rejections.

Art Unit: 2133

3. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hidaka; Hideto et al. (US 4730320 A, hereafter referred to as Hidaka), Chen; Chin L. (US 4464753 A) and Stiffler; Jack J. (US 4736376 A).

See the Non-Final Action filed 04/29/2005 for detailed action of prior rejections.

Allowable Subject Matter

4. Claims 1-4 and 6-21 are allowed.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph D. Torres whose telephone number is (571) 272-3829. The examiner can normally be reached on M-F 8-5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2133

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LOSE/PH/TORRES

Joseph D. Torres, PhD Primary Examiner Art Unit 2133